



1263.1793

PATENT APPLICATION

2171

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8-29-01

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ALEXANDER RALPH LYONS ET AL.

Application No.: 09/718,405

Filed: November 24, 2000

For: IMAGE PROCESSING  
APPARATUS

Examiner: Not Yet Assigned

Group Art Unit: 2171

August 20, 2001

Commissioner for Patents  
Washington, D.C. 20231

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AUG 27 2001

Technology Center 2600

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Technology Center 2100SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

The Examiner's attention is also directed to the following U.S. Applications:

<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
AWC - 09/718,342	11/24/00	2671
AWC - 09/718,343	11/24/00	2622
AWC - 09/718,413	11/24/00	2614
AWC - 09/129,077	08/05/98	2621
AWC - 09/129,079	08/05/98	2621
AWC - 09/129,080	08/05/98	2785

A copy of each cited Application is enclosed.

*aea* 12/20/04

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FORM PTO 1449 (modified)			ATTY DOCKET NO. 1263.1793		APPLICATION NO. 09/714,406	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Alexander Ralph Lyons Et al, Technology Center 2600			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			FILING DATE November 24, 2000		GROUP Not Yet Known	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AWC	5,511,153	04/23/96	Azarbayejani et al	395	119	
AWC	6,044,181	03/28/00	Szeliski et al.	382	284	08/01/97
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AWC	EP	0898245	02/24/99	EPO	G06T	7/00
AWC	EP	0901105	03/10/99	EPO	G06T	7/00
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
AWC		"Epipolar Geometry in Stereo, Motion and object Recognition". by Xu and Zhang, Chapter 2, Kluwer Academic Press, ISBN 0792341996.				
AWC		"Euclidean Reconstruction from Uncalibrated Views" by Hartley in Applications of Invariance in Computer Vision: Proceedings of Second Joint Euro-US Workshop, Chapter 5, Ponta del Gada, Azores, Portugal, Oct 1993, Springer-Verlag, ISBN 0387582401.				
AWC		"Efficient Bundle Adjustment with Virtual Key Frames: A Hierarchical Approach to Multi-Frame Structure from Motion" by Shum et al in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 2, pp. 538-543, ISBN 0769501494.				
AWC		"Calibration of Image Sequences for Model Visualisation" by Broadhurst and Cipolla in Proceedings of the 1999 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, Volume 1, pp.100-105, ISBN 0769501494.				
AWC		"Multi-View 3D Estimation and Applications to Match Move" by Sawhney et al in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 21-28, ISBN 0769501109.				
AWC		"Calibrating and 3D Modelling with a Multi-Camera System" by Wiles and Davison in 1999 IEEE Workshop on Multi-View Modelling and Analysis of Visual Scenes, pp. 29-36, ISBN 0769501109.				
AWC		"Adaptive Least Squares Correlation: A Powerful Image Matching Technique" by A. W. Gruen in Photogrammetry Remote Sensing and Cartography, 14(3), 1985 pp. 175-187.				
AWC		"Computer and Robot Vision Volume 2", Section 13.4.15, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1993, pp. 85-91, ISBN 0-201-56943-4 (v.2).				
AWC		"Numerical Recipes in C", Chapter 15.5, pp. 681-688 by Press et al, Cambridge University Press, ISBN 0-521-43108-5.				
AWC		"Closed Form Solution of Absolute Orientation Using Unit Quaternions" by Horn in Journal of Optical Soc. of America 4(4), pp. 629-649, April 1987.				
AWC		"Shape and Motion from Image Streams under orthography: a Factorization Method" by Tomasi and Kande, IJCV 9:2, 137154 (1992), pp. 137-154				
EXAMINER			DATE CONSIDERED			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)		ATTY DOCKET NO. <b>1263.1793</b>		APPLICATION NO. <b>09/718,405</b>	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		<div style="float: right; text-align: left;"> <b>RECEIVED</b>  <b>AUG 27 2001</b>  <b>Technology Center 2600</b> </div>			
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		APPLICANT <b>Alexander Ralph Lyons Et al.</b>			
		FILING DATE <b>November 24, 2000</b>		GROUP <b>Not Yet Known</b>	
U.S. PATENT DOCUMENTS					
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FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	TRANSLATION YES/NO/ OR ABSTRACT
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
AUC	1	"Computer and Robot Vision Volume 1", Section 8, by R. M. Haralick and L. G. Shapiro, Addison-Wesley Publishing Company, 1992, pp. 371-452, ISBN 0-201-10877-1 (v.1).			
AUC	2	"Rapid Octree Construction from Image Sequences" by R. Szeliski in CVGIP: Image Understanding, Volume 58, Number 2, July 1993, pp. 23-32.			
AUC	3	"Marching Cubes: A High Resolution 3D Surface Construction Algorithm" by W. E. Lorensen & H. E. Cline in Computer Graphics, SIGGRAPH 87 proceedings, 21; pp. 163-169, July 1987.			
AUC	4	"An Implicit Surface Polygonizer" by J. Bloomenthal in Graphics Gems IV, AP Professional, 1994, ISBN 0123361559, pp. 324-350.			
AUC	5	"Photorealistic Scene Reconstruction by Voxel Coloring" by Seitz and Dyer in Proc. Conf. Computer Vision and Pattern Recognition 1997, pp. 1067-1073.			
AUC	6	"Plenoptic Image Editing" by Seitz and Kutulakos in Proc. 6th International Conference on Computer Vision, pp. 17-24.			
AUC	7	"What Do N Photographs Tell Us About 3D Shape?" by Kutulakos and Seitz in University of Rochester Computer Sciences Technical Report 680, January 1998, pp. 1-8.			
AUC	8	"A Theory of Shape by Space Carving" by Kutulakos and Seltz in University of Rochester Computer Sciences Technical Report 692, May 1998, pp. 1-27.			
AUC	9	"Robust Video Mosaicing Through Topology Inference and Local to Global Alignment" by Sawhney et al in Proc. European Conference on Computer Vision, ECCV, Freiburg Germany vol 2, pp. 103-119, June 1998.			
AUC	10	"The Variable State Dimension Filter" by Philip McLauchlan.			
AUC	11	"Good Features to Track" by Shi and Tomasi in 1994 IEEE Conference on Computer Vision and Pattern Recognition pp. 593-600.			
AUC	12	"A Multiple-Baseline Stereo" by Okutomi and Kanade in IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume 15, No 4, April 1993, pp. 353-363.			
EXAMINER		DATE CONSIDERED <b>12/20/04</b>			

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